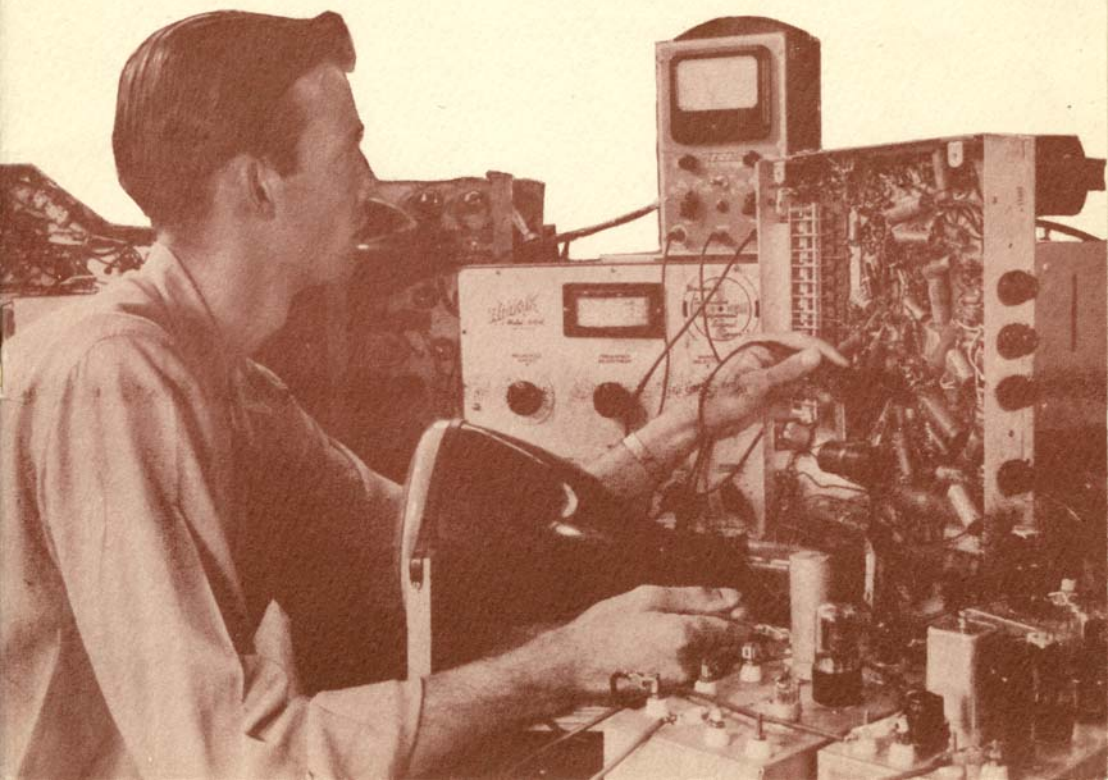
MILWAUKEE SCHOOL OF ENGINEERING

BULLETIN

Training the TV Service Man



OTHER MSOE PUBLICATIONS

Annual Catalog

Concentric Curriculum Bulletin

Evening Division Catalog

Student Employment and Housing Pamphlet

Student Handbook

"What MSOE Is" Pamphlet

"Your Career" Bulletin

Field Bulletins:
- Electrical Power
- Radio and Television
- Refrigeration, Heating and Air Conditioning
- Welding
- Mechanical Engineering

VOLUME 4 **August 15, 1952** **NUMBER 16**

The Milwaukee School of Engineering Bulletin is published semi-monthly by the Division of Public Relations of the Milwaukee School of Engineering, Milwaukee 1, Wisconsin. Entered as second class matter January 7, 1949 at the Post Office at Milwaukee, Wisconsin, under the act of August 24, 1912.

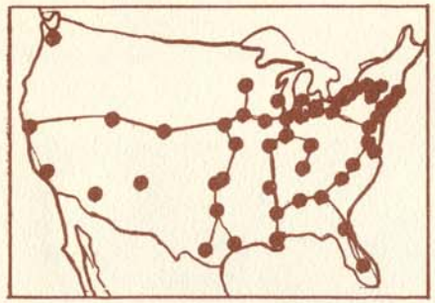
Copyright 1952 Milwaukee School of Engineering 1475

Milwaukee School of Engineering

BULLETIN

Radio - Television Service Issue

LIFTING OF TV 'FREEZE' WILL BRING TELEVISION TO EVERY COMMUNITY



1952 - This is the approximate television coverage of the United States at present

195? - Except for a few areas, new TV stations will virtually blanket the nation

Today, less than 50,000 *trained* television service men are available to maintain receivers in communities covered by only 108 television stations. The long-awaited lifting of the "freeze" authorizes construction of more than 2,000 *new* stations in 1,291 cities. Conservative industry estimates indicate that over 130,000 TV service men will be needed by 1955 for the installation and repair of receivers alone. This does not include the many other high-paying job opportunities in this single industry.

PREPARE NOW FOR A WIDE VARIETY OF CAREER OBJECTIVES

In addition to training you to become a competent radio-television service man and service shop owner, this course at the Milwaukee School of Engineering prepares you for a variety of additional good-paying jobs. Here are a few for which you will be qualified:

In Radio Servicing - Installing and servicing radios, public address systems, recorders and related electronic devices.

In Manufacturing - Assembling, inspecting, aligning, testing, servicing.

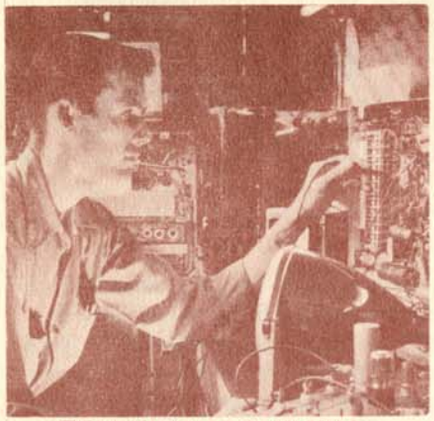
In Merchandising - Installation, sales, buying, technical correspondence, demonstrating, service managing.

In Television Servicing - Installing antennas and television sets, home and shop servicing.

In Shop Ownership - Managing own business, supervising technical and sales personnel, arranging for advertising, collections, buying and selling.

THIS 12-MONTH RADIO-TELEVISION SERVICE COURSE IS YOUR PASSPORT TO A PROFITABLE CAREER

The Milwaukee School of Engineering offers the ideal course for the man who wants to enter America's fastest-growing industry ... who has limited resources and time ... and who wants to get the most direct and effective training in radio and television. Further, it has the two-fold objectives of (1) developing technical skills and (2) supplying training for ultimate shop ownership.



TELEVISION SERVICING

In-school training at MSOE prepares you in the shortest practical time for immediate employment as a TV service man.

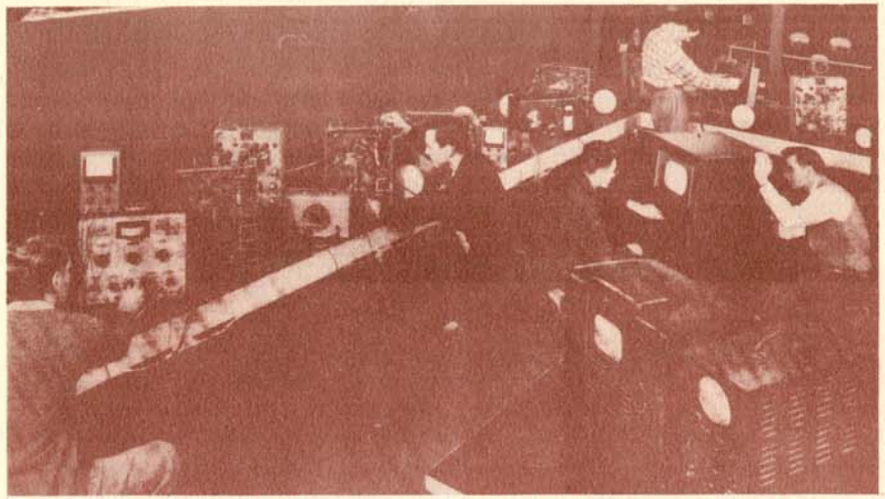
OWN YOUR OWN SHOP

Employment as a trained and experienced TV service man can lead you into starting a profitable business of your own when you are ready.

All essentials for these dual objectives are included in this 12-month Radio-Television service course. The graduate not only becomes a competent service man, but also has thorough training in business communications, principles of advertising and simple bookkeeping. Psychology and salesmanship are included to develop the personal qualities of the individual so that he will be a more effective businessman.

There are no admission requirements other than average ability and a desire to learn the radio and television servicing business. The student will be amazed at the ease with which he will learn how to service radios and television sets under the *personal* attention of our staff of specialists.

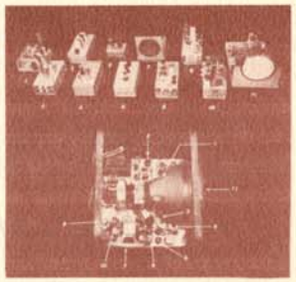
The Milwaukee School of Engineering is an established, world-famous institution. Now nearing its 50th year of continuous operation, this School offers a wide range of technical and engineering courses on three different levels of study, each successive level complete in itself. It has an annual enrolment of over 2,300 students from all 48 states and 23 foreign countries.



Milwaukee School of Engineering television students are shown at work in the modern television laboratory aligning and testing several makes of receivers. Practical technical training such as this is the key to the success of graduates of this school.

Train for expanding TELEVISION OPPORTUNITIES

In the scene at left, the School's amateur radio club transmitter is adjusted by a student.



The "Unit Chassis" system, shown at right, trains students on all types and makes of receivers.

At left, an instructor uses a graphic radio demonstrator to teach radio re-receiver alignment.

As seen at right, expert instructors supervise all student work in television and radio laboratories.

EARN WHILE YOU LEARN

The Milwaukee School of Engineering is prepared to help you finance your training with a generous deferred payment plan and part-time work opportunities in the great industrial-commercial center of Milwaukee. Don't let financing prevent you from taking advantage of the greatest opportunity of a lifetime for ambitious young men.

STUDENT SERVICES

PART-TIME EMPLOYMENT – Opportunities for part-time employment are available for all students who wish to supplement their finances in this manner. The Milwaukee School of Engineering Placement Bureau, located in the office of the Dean of Men, is equipped to refer students to prospective employers in one of Milwaukee's varied industries. A majority of students at MSOE have worked while carrying a full academic schedule, helping to defray expenses while adding practical experience to their education.

FULL-TIME PLACEMENT – The Milwaukee School of Engineering Placement Bureau also assists MSOE graduates in making contacts with potential employers. Full-time between-terms employment for students who are unable to attend four terms a year is also available.

STUDENT HOUSING – The office of the Dean of Men also maintains a Housing Bureau to assist students in obtaining living quarters in Milwaukee. The Bureau lists housing facilities currently available in many parts of the city. It also cooperates with other local housing offices operated by public and private groups.

The 12-month Radio-Television Service course is one of 16 specialized educational programs offered by the Milwaukee School of Engineering

BACHELOR OF SCIENCE DEGREE IN 36 MONTHS
Electrical Engineering
Major in Electronics or Power
Mechanical Engineering

TECHNICIAN CERTIFICATE – 12 TO 18 MONTHS
Electrical, Electronics, Radio, Radio-Television
Air Conditioning, Mechanical, Welding

SERVICE CERTIFICATE – 6 TO 12 MONTHS
Electrical, Radio-Television
Heating, Refrigeration, Welding

PREPARATORY COURSE – 3 MONTHS

12 MONTH RADIO-TELEVISION SERVICE COURSE

Symbol	Subject Title	Periods Per Week	Lecture	Lab	Credit In Quarter Hours
TERM I:					
Eltn 021	DC and AC Theory	5	5	0	5
Eltn 021A	Electrical Calculations	1	1	0	1
Eltn 041	DC and AC Laboratory	10	1	9	4
Math 03	Electrical Mathematics	5	5	0	5
Shop 01B	Electrical Shop	4	1	3	2
Comm 021	General Communications	4	4	0	4
SR 21E	Elementary Slide Rule	1	1	0	0
	Totals	30	18	12	21
TERM II:					
Eltn 022	Electronics	5	5	0	5
Eltn 022A	Electronics Calculations	2	2	0	2
Eltn 042	Electronics Laboratory	7	1	6	3
Math 04	Electrical Mathematics	5	5	0	5
Shop 02B	Mechanical Shop	4	1	3	2
Comm 022	Written Communications	3	3	0	3
I Com 21B	Psychology	3	3	0	3
SR 22E	Advanced Slide Rule	1	1	0	0
	Totals	30	21	9	23
TERM III:					
Eltn 24D	Radio Theory	5	5	0	5
Eltn 024A	Radio Circuits	2	2	0	2
Eltn 44D	Radio Service Laboratory	10	1	9	4
Comm 023	Business Communications	3	3	0	3
I Com 030	Owning and Operating a TV, Radio and Appliance Shop	4	4	0	4
I Com 23B	Technical Selling	3	3	0	3
Draw 040F	Radio Circuit Drawing	3	0	3	1
	Total	30	18	12	22
TERM IV:					
Eltn 26B	Television Theory	5	5	0	5
Eltn 026A	Television Circuits	4	4	0	4
Eltn 46B	Television Service Laboratory	10	1	9	4
Eltn 30A	Ultra High Frequency Techniques	2	2	0	2
Eltn 31A	Pulse Systems	3	3	0	3
Eltn 32A	Frequency Modulation	2	2	0	2
I Com 24B	Merchandising & Advertising	4	4	0	4
	Totals	30	21	9	24

CALENDAR 1952-1953

Winter Term:	1952	1953
Registration, new and advanced	Dec. 26 - Jan. 7	Dec. 26 - Jan. 5
Classes begin 7:45 A.M.	Mon. Jan. 7	Mon. Jan. 5
Last day for removal of conditions	Sat. Jan. 12	Sat. Jan. 10
Last day for removal of incompletes	Mon. Jan. 21	Mon. Jan. 19
Examinations begin	Mon. Mar. 24	Mon. Mar. 23
End of Winter Term 9:55 P.M.	Fri. Mar. 28	Fri. Mar. 27

Spring Term:		
Registration, new and advanced	Mar. 24 - Mar. 31	Mar. 20 - Mar. 30
Classes begin 7:45 A.M.	Mon. Mar. 31	Mon. Mar. 30
Last day for removal of conditions	Sat. Apr. 5	Sat. Apr. 4
Last day for removal of incompletes	Mon. Apr. 14	Mon. Apr. 13
Memorial Day recess	Fri. May 30	Sat. May 30
Examinations begin	Mon. June 16	Mon. June 15
End of Spring Term 9:55 P.M.	Fri. June 20	Fri. June 19

Summer Term:		
Registration, new and advanced	June 20 - June 30	June 19 - June 29
Classes begin 7:45 A.M.	Mon. June 30	Mon. June 29
Fourth of July recess	Fri. July 4	Sat. July 4
Last day for removal of conditions	Sat. July 5	Sat. July 4
Last day for removal of incompletes	Mon. July 14	Mon. July 13
Labor Day recess	Mon. Sept. 1	Mon. Sept. 7
Examinations begin	Mon. Sept. 15	Mon. Sept. 14
End of Summer Term 9:55 P.M.	Fri. Sept. 19	Fri. Sept. 18

Fall Term:		
Registration, new and advanced	Sept. 19 - Sept. 29	Sept. 18 - Sept. 28
Classes begin 7:45 A.M.	Mon. Sept. 29	Mon. Sept. 28
Last day for removal of conditions	Sat. Oct. 4	Sat. Oct. 3
Last day for removal of incompletes	Mon. Oct. 13	Mon. Oct. 12
Thanksgiving recess begins 9:55 P.M.	Wed. Nov. 26	Wed. Nov. 25
Classes resume 7:45 A.M.	Mon. Dec. 1	Mon. Nov. 30
Examinations begin	Mon. Dec. 15	Mon. Dec. 14
End of Fall Term 9:55 P.M.	Fri. Dec. 19	Fri. Dec. 18

MILWAUKEE SCHOOL OF ENGINEERING CURRICULA

Institute of Electrotechnics

SERVICE-PREPARATORY COURSES:

Preparatory	3 months
Electrical Service	6 months
Radio-Television Service	12 months

TECHNICIAN COURSES:

Electro Technician	12 months
Electronics Technician	12 months
Radio Technician	12 months
Radio-Television Technician	18 months

ENGINEERING COURSES:

Two curricula leading to the degree of Bachelor of Science in Electrical Engineering (Electronics or Power Major)	36 months

Institute of Mechanical Technology

SERVICE-PREPARATORY COURSES:

Preparatory	3 months
Heating Service	6 months
Refrigeration Service	6 months
Welding Operator	6 months

TECHNICIAN COURSES:

Air Conditioning Technician	12 months
Mechanical Technician	12 months
Welding Technician	12 months

ENGINEERING COURSE:

One curriculum leading to the degree of Bachelor of Science in Mechanical Engineering	36 months

Literature on any of the above named courses, on student housing and part-time employment, on selective service and on financing your education is obtainable, without obligation, by writing the Coordinator of Admissions, Milwaukee School of Engineering, 1025 North Milwaukee Street, Milwaukee 1, Wisconsin.

ADMINISTRATIVE COMMITTEE

Karl O. Werwath, B. S., President	Chairman
Sidney A. Eng, B. S., M. S.	Dean of Men
Greta W. Murphy	Director of Public Relations
John H. Murphy, Ph. B., J. D.	Legal Counsel
A. C. Schmidt	Coordinator
Hannah W. Swart	Registrar
Fred J. Van Zeeland, B. S.	Dean of Engineering
Hannah S. Werwath	Assistant Treasurer
Heinz M. Werwath, A. B.	Controller and Treasurer

MILWAUKEE SCHOOL OF ENGINEERING

1025 North Milwaukee Street Milwaukee 1, Wisconsin

Entered as second class matter January 7, 1949 at the Post Office at Milwaukee, Wisconsin, under the act of August 24, 1912.